IN THE CLAIMS

Claims 1, 3-5 and 7-18 are pending in this application. Please amend claims 14 and 16, as follows:

1. (Previously Presented) An optical head comprising a light source for emitting a light beam, a lens for focusing the light beam onto a medium, and a detector for detecting a reflected light beam from the medium,

wherein the light source comprises a semiconductor laser comprising an active layer and a barrier layer, said active layer being an indirect semiconductor, said indirect semiconductor having an asymmetric quantum well structure in which band structures of a conduction band and a valence band are left-right asymmetric with respect to a center of the quantum well structure in a band structure pattern.

- 2. (Canceled)
- 3. (Previously Presented) An optical head as set forth in claim 1, wherein the semiconductor laser has a barrier layer, which is also said indirect semiconductor.
- 4. (Previously Presented) An optical head as set forth in claim 1, wherein said indirect semiconductor is made of an indirect semiconductor mixed crystal material.
- 5. (Previously Presented) An optical head as set forth in claim 1, wherein said optical head is used for reproducing information from the medium.
- 6. (Canceled)
- 7. (Previously Presented) An optical head as set forth in claim 1, wherein the indirect semiconductor has an adjacent confinement structure.
- 8. (Previously Presented) An optical head as set forth in claim 1, wherein the material of the indirect semiconductor is of an AlGaP (aluminum, gallium and phosphor) group.
- 9. (Previously Presented) An optical head as set forth in claim 8, wherein said light beam has a continuous spectrum of which a half-value width of a main peak is not

- less than 20 meV but not greater than 400 meV in the form of optical energy range.
- 10. (Previously Presented) An optical head as set forth in claim 8, wherein said light beam has a continuous spectrum of which a half-value width of a main peak is not less than 6 nm but not greater than 100 nm.
- 11. (Previously Presented) An optical head as set forth in claim 1, wherein the material of the indirect semiconductor is of a SiGe (silicon germanium) group.
- 12. (Previously Presented) An optical head as set forth in claim 11, wherein said light beam has a continuous spectrum of which a half-value width of a main peak is not less than 20 meV but not greater than 150 meV in optical energy range.
- 13. (Previously Presented) An optical head as set forth in claim 11, wherein said light beam has a continuous spectrum of which a half-value width of a main peak is not less than 13 nm but not greater than 90 nm at a room temperature.
- 14. (Currently Amended) An optical head as set forth in claim 1, wherein a direct current (dc) drive is used for driving the semiconductor laser.
- 15. (Previously Presented) An optical head as set forth in claim 1, comprising a multilayer film reflector provided at an end face of a resonator.
- 16. (Currently Amended) An optical head as set forth in claim 1, comprising [[and]] a waveband pass filter for limiting the wavelength of the light beam from the semiconductor laser to be less a half-value width of 2 nm.
- 17. (Previously Presented) An optical head as set forth in claim 1, comprising a cooler for lowering the temperature of a light emitting part of the semiconductor laser.
- 18. (Previously Presented) An optical disc apparatus using an optical head as set forth in claim 1.